

**2019-20 NC Check-Ins
Grade 8 Life Science
State Item Statistics**

	Content Standard		Item #	Percent Correct by Item
Structures and Functions of Living Organisms	8.L.1.1	Summarize the basic characteristics of viruses, bacteria, fungi and parasites relating to the spread, treatment and prevention of disease.	1	81
			11	65
			21	78
	8.L.1.2	Explain the difference between epidemic and pandemic as it relates to the spread, treatment and prevention of disease.	2	78
			12	*
			22	71
	8.L.2.1	Summarize aspects of biotechnology including: • Specific genetic information available • Careers • Economic benefits to North Carolina • Ethical issues • Implications for agriculture	3	70
			13	72
			23	72
Ecosystems	8.L.3.1	Explain how factors such as food, water, shelter and space affect populations in an ecosystem.	4	86
			14	81
			24	*
	8.L.3.2	Summarize the relationships among producers, consumers, and decomposers including the positive and negative consequences of such interactions including: • Coexistence and cooperation • Competition (predator/prey) • Parasitism • Mutualism	5	81
			15	*
			25	49
	8.L.3.3	Explain how the flow of energy within food webs is interconnected with the cycling of matter (including water, nitrogen, carbon dioxide and oxygen).	6	*
			16	*
			26	*
Evolution and Genetics	8.L.4.1	Summarize the use of evidence drawn from geology, fossils, and comparative anatomy to form the basis for biological classification systems and the theory of evolution.	7	66
			17	83
			27	86
	8.L.4.2	Explain the relationship between genetic variation and an organism's ability to adapt to its environment.	8	79
			18	84
			28	75
Molecular Biology	8.L.5.1	Summarize how food provides the energy and the molecules required for building materials, growth and survival of all organisms (to include plants).	9	*
			19	60
			29	*
	8.L.5.2	Explain the relationship among a healthy diet, exercise, and the general health of the body (emphasis on the relationship between respiration and digestion).	10	*
			20	*
			30	*

Note: Results from NC Check-Ins should not be compared across interims, districts, or the state.

Each NC Check-In for grade 8 Science assesses different content standards.

*New Item – no data currently available